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CONTENTS.

INVENTIONS PATENTED.....	101
ILLUSTRATIONS.....	123
INDEX OF INVENTIONS.....	I
INDEX OF PATENTEES.....	II

INVENTIONS PATENTED.

No. 16,422. Improvements on Die Stocks.

(Perfectionnement aux filières brisées.)

William D. Forbes, Bridgeport, Conn., U. S., 1st March, 1883; for 5 years.

Claim.—1st. The combination of a casing adapted to be secured and provided with means for holding a pipe or die, a rotary and traversing ring adapted to carry a die or pipe and guided in the casing, and an elongated pinion whereby said ring is rotated and permitted to slide. 2nd. The combination of a casing adapted to be secured to a bench and provided with means for holding a pipe or die, a rotating and traversing ring adapted to carry a die or pipe and guided in the casing, an elongated pinion whereby said ring is rotated and permitted to slide, and a lead screw for traversing the ring as rotated. 3rd. The combination of a casing adapted to be secured to a bench, a ring rotating therein, and having swinging dies, abutments *w* for the latter, and a movable cover-plate having pins or projections for acting on the dies. 4th. The combination of the pipe-carrier with a pair of sliding gripping jaws *K*, screws *k* for operating the same, ratchet wheels *o* on the screws and a pivoted lever *L* having pawls for operating said ratchet wheels. 5th. The combination of the casing of the instrument, the ring *J* and its swivelled nut *s*, and the pin *t* adapted to lock the nut to the ring but permitting the release of the same therefrom.

No. 16,423. Improvements on Life-Preserving chairs. (Perfectionnements aux fauteuils de sauvetage.)

Frank G. Johnson, Brooklyn, and John H. Hayward, Northfield, N. Y., U. S., 1st March, 1883; for 5 years.

Claim.—1st. The combination, with a portable folding steamer chair, of the float *K L L*. 2nd. In a portable folding steamer chair, the combination of the pawl *D* and ratchet *D*, with the back *C C* and legs *A A*, whereby the inclination of the back *C C* can be varied without changing the pitch of the seat *A A* of the chair. 3rd. The slotted or elongated hole *c* in the legs *A A*, in combination with the axle *e* and clamp nuts *w w*, whereby the seat of the chair can be raised or lowered without varying the pitch of the seat, or inclination of the back. 4th. The polygonal cam bearing or supports *b^u b^u*, in combination with the supporting bar *b*, whereby the pitch of the seat *A A* of the chair can be varied. 5th. The detachable sliding and rotating arms *II*, whereby they can be converted into tables, held and operated in the manner described. 6th. The detachable sliding and rotating arms *II*, in combination with the notched faced washers *h^u h^u* and clamps nuts *h*, and bolts *h^u*. 7th. The rotating arms *II*, in combination with the sliding bar *F F* provided with the slotted opening *g g*, and clamp nuts and bolts *f f*. 8th. In combination with a portable folding steamer chair, the detachable folding and adjustable hood *m*, attached and arranged as described. 9th. The combination of the folding detachable and adjustable hood *m*, slotted plates *i* and clamp thumb-nuts and bolts *j j*. 10th. The combination of the independently adjustable back *C C* with the detachable folding and adjustable hood *m*. 11th. The combination of the adjustable back *C C* independently of the seat by means of the pawl *D* and ratchet *D*, the adjustable seat *A A*, independently of the back by means of the vertical slots *c*, and axle *e*, and polygonal stops or bearings *b^u b^u*, the attachable sliding and rotating arms *II* by means of the sliding piece *F F*, the brackets *II* and *H*, pin *h*, bolt *h* and notched face washers *h^u h^u*.

No. 16,424. Improvements on Barrel-Making Machines. (Perfectionnements aux machines de tonnellerie.)

Samuel Wright, Egremont, Eng., 1st March, 1883; for 15 years.

Claim.—1st. In a barrel-forming machine, the combination, with a collapsible form or drum, of a table or guides, and a rope or ropes (or equivalent thereof as a chain or chains) having a drawing or pulling action, and operating to draw or force a set of staves along said table or guides and on to the core barrel or drum. 2nd. The combination, with a collapsible barrel form or drum, of a table or guides and a rope or ropes (or the equivalent thereof) having a drawing or pulling action, and operating not only to draw or force staves along said table or guides and on to the core barrel or drum, but also to partially truss or press the staves when on the barrel form or drum together and towards its axis. 3rd. A table comprising end and intermediate guide-bars, in combination with adjustable top guide-bars. 4th. The combination, with a collapsible barrel form or drum, of top, bottom and end guide-bars, means for adjusting the top guide bars, cutters for shaping the ends of staves, top guide rollers or its equivalent, and a rope or ropes (or the equivalent thereof,) the arrangement being such that the staves, while being drawn towards the collapsible barrel form or drum by a rope or ropes (or the equivalent thereof), are subject to the action of the cutters which shape their ends. 5th. In combination with a collapsible barrel form or drum and encircling guide hoops, the top roller shaft *K*, bevelled rollers *K* (or their equivalents) central lower guide bar fixed on lower frame *j* and means for adjusting said guide-bar to suit the curvature the staves are required to take before entering between the collapsible barrel form or drum or its encircling hoops. 6th. The combination, with a collapsible barrel form or drum, of a rope or ropes (or the equivalents thereof) having a drawing or pulling action to feed staves on to said barrel form or drum, and means for automatically regulating the tension of rope or ropes. 7th. The combination, with a collapsible barrel form or drum and a feeding table, of feeding ropes *E*, winding drum *B*, guide roller *D*, shaft *D*, sliding pedestals *D*, fixing *D*, frame *O* and springs *E*. 8th. The combination, with a collapsible core barrel or drum and guides, of rollers, whereby staves are fed to said core barrel or drum. 9th. The combination, with a barrel form or drum and guides, of upper and lower feed rollers, and means whereby the upper rollers are caused to accommodate staves of slightly different thicknesses. 10th. The combination, with a collapsible barrel form or drum, of guide hoops each made in two parts, one jointed to the other and to the horizontal guide or table along which the staves are fed to the barrel form or drum, said ropes being operated by cranks to open them as and when required. 11th. The combination of guides, adjustable feed rollers, means for cutting the staves to length, grooving and bevelling a collapsible barrel form, and jointed guide hoops encircling same. 12th. A collapsible barrel form or drum comprising segments such as *f f* made much shorter than the barrels to be formed, said segments being connected by links such as *w w* to a fixed collar and to a movable collar on a shaft, in such manner that the longitudinal distances apart of the link ends jointed or pivoted to said collars, shall always be greater than the distances apart of the other ends of the same links. 13th. The improved collapsible barrel form or drum comprising segments *f f*, brackets or fixings *c*, links *w w*, fixed collar *X*, and movable collars *X* on the shaft *A*. 14th. A collapsible barrel form or drum comprising segments *f f* with shanks or stems, and wedges or inclines, movable lengthwise on a shaft for operating said segments. 15th. In a machine for forming casks or barrels, the use of a collapsible core barrel of the modified construction described. 16th. A trussing hoop comprising a pliable hoop or strap, hand lever, links and pin combined. 17th. The method of holding the barrel head in position by the arrangement of cross pieces furnished with teeth or spikes.

No. 16,425. Improvements on Devices for Handling Coal, Ores, etc. (Perfectionnements aux appareils à manier le charbon, les minerais, etc.)

Alfred Lawton, Elizabeth, N. J., U. S., 1st March, 1883; for 15 years.

Claim.—1st. An endless conveyor composed of a series of pans hinged together (by links and rods) in such a manner that their sides